

AMENDMENTS TO THE CLAIMS

Please amend the claims as they currently stand so that they are in accord with the following listing of the claims:

1. (currently amended) An apparatus for treating fibrillation of at least one chamber of a heart of a patient, comprising:

a fibrillation detector;

a defibrillator for defibrillating the chamber of the heart, wherein the defibrillator is connected to the fibrillation detector and effects defibrillation subsequently to a time interval after detection of the fibrillation;

~~a defibrillator for defibrillating the chamber of the heart, wherein the defibrillator is connected to the fibrillation detector and effects defibrillation subsequently to a time interval after detection of the fibrillation;~~

a warning device, connected to the fibrillation detector, that delivers a warning signal when a fibrillation has been detected; and

a means for controlling the apparatus ~~control means~~ having a control input actuable by the patient, wherein the control means is connected to the defibrillator and delays the time of a defibrillation if the control means receives a corresponding signal by way of the control input,

characterized in that the apparatus further comprises a condition detector that detects a hemodynamic condition of the heart, and the control means is connected to the condition detector and prevents a delay in the time of defibrillation when the condition detector detects a predetermined hemodynamic condition.

2. (currently amended) The apparatus of claim 1, wherein:

the fibrillation detector is adapted to detect ~~detects~~ atrial fibrillation and
the defibrillator is adapted to treat ~~treats~~ atrial fibrillation.

3. (currently amended) The apparatus of claim 1, wherein

the fibrillation detector is adapted to detect ~~detects~~ ventricular fibrillation.

4. (currently amended) The apparatus of claim 3 wherein:
the defibrillator is adapted to treat ~~treats~~ ventricular fibrillation.
5. (previously presented) The apparatus of claim 1, wherein:
the warning device is connected to the condition detector and outputs a first type of said warning signal when both the predetermined hemodynamic condition and the fibrillation are detected, and outputs a second type of said warning signal when the fibrillation is detected with no predetermined hemodynamic condition.
6. (previously presented) The apparatus of claim 1, wherein:
the defibrillator delivers a pain killer and/or a tranquilizer prior to defibrillation.
7. (previously presented) The apparatus of claim 1, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and which delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.
8. (previously presented) The apparatus of claim 1, wherein:
the condition detector ascertains the predetermined hemodynamic condition on the basis of one or more indicators.
9. (currently amended) The apparatus of claim 38, wherein:
the condition detector is connected to the fibrillation detector and detects ventricular fibrillation as the indicator or as one of the indicators.
10. (previously presented) The apparatus of claim 8, wherein:
the condition detector detects heart output as the indicator or as one of the indicators.
11. (previously presented) The apparatus of claim 10, wherein:

the condition detector detects heart output by means of epicardial or endocardial impedance measurements.

12. (previously presented) The apparatus of claim 8, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
13. (previously presented) The apparatus of claim 1, further comprising:
means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.
14. (previously presented) The apparatus of claim 13, wherein:
the control means includes the means for manual initiation of atrial defibrillation.
15. (currently amended) The apparatus of claim 2, wherein
the fibrillation detector is further adapted to detect ~~detects~~ ventricular fibrillation.
16. (currently amended) The apparatus of claim 15 wherein:
the defibrillator is further adapted to treat ~~treats~~ ventricular fibrillation.
17. (previously presented) The apparatus of claim 2, wherein:
the warning device is connected to the condition detector and outputs a first type of said warning signal when both the predetermined hemodynamic condition and the fibrillation are detected, and outputs a second type of said warning signal when the fibrillation is detected with no predetermined hemodynamic condition.
18. (previously presented) The apparatus of claim 3, wherein:
the warning device is connected to the condition detector and outputs a first type of said warning signal when both the predetermined hemodynamic condition and the fibrillation are detected, and outputs a second type of said warning signal when the fibrillation is detected with no predetermined hemodynamic condition.

19. (previously presented) The apparatus of claim 4, wherein:
the warning device is connected to the condition detector and outputs a first type of said warning signal when both the predetermined hemodynamic condition and the fibrillation are detected, and outputs a second type of said warning signal when the fibrillation is detected with no predetermined hemodynamic condition.
20. (previously presented) The apparatus of claim 16, wherein:
the warning device is connected to the condition detector and outputs a first type of said warning signal when both the predetermined hemodynamic condition and the fibrillation are detected, and outputs a second type of said warning signal when the fibrillation is detected with no predetermined hemodynamic condition.
21. (previously presented) The apparatus of claim 2, wherein:
the defibrillator delivers a pain killer and/or a tranquilizer prior to defibrillation.
22. (previously presented) The apparatus of claim 3, wherein:
the defibrillator delivers a pain killer and/or a tranquilizer prior to defibrillation.
23. (previously presented) The apparatus of claim 5, wherein:
the defibrillator delivers a pain killer and/or a tranquilizer prior to defibrillation.
24. (previously presented) The apparatus of claim 17, wherein:
the defibrillator delivers a pain killer and/or a tranquilizer prior to defibrillation.
25. (previously presented) The apparatus of claim 18, wherein:
the defibrillator delivers a pain killer and/or a tranquilizer prior to defibrillation.
26. (previously presented) The apparatus of claim 19, wherein:
the defibrillator delivers a pain killer and/or a tranquilizer prior to defibrillation.

27. (previously presented) The apparatus of claim 20, wherein:
the defibrillator delivers a pain killer and/or a tranquilizer prior to defibrillation.
28. (cancelled)
29. (previously presented) The apparatus of claim 2, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and
which delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.
30. (previously presented) The apparatus of claim 17, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and
which delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.
31. (previously presented) The apparatus of claim 20, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and
which delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.
32. (previously presented) The apparatus of claim 19, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and
which delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.
33. (currently amended) The apparatus of claim 6 ~~17~~, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and which
delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.
34. (previously presented) The apparatus of claim 3, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and which
delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.

35. (previously presented) The apparatus of claim 18, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and which
delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.

36. (previously presented) The apparatus of claim 5, further comprising:
a pain therapy unit which is connected to the control means and to nerve electrodes and which
delivers electrical pulses for numbing pain sensations by way of the nerve electrodes.

37. (previously presented) The apparatus of claim 2, wherein:
the condition detector ascertains the predetermined hemodynamic condition on the basis of
one or more indicators.

38. (previously presented) The apparatus of claim 3, wherein:
the condition detector ascertains the predetermined hemodynamic condition on the basis of
one or more indicators.

39. (previously presented) The apparatus of claim 9, wherein:
the condition detector detects heart output as the indicator or as one of the indicators.

40. (previously presented) The apparatus of claim 37, wherein:
the condition detector detects heart output as the indicator or as one of the indicators.

41. (previously presented) The apparatus of claim 38, wherein:
the condition detector detects heart output as the indicator or as one of the indicators.

42. (previously presented) The apparatus of claim 39, wherein:
the condition detector detects heart output by means of epicardial or endocardial impedance
measurements.

43. (previously presented) The apparatus of claim 40, wherein:

the condition detector detects heart output by means of epicardial or endocardial impedance measurements.

44. (previously presented) The apparatus of claim 41, wherein:
the condition detector detects heart output by means of epicardial or endocardial impedance measurements.
45. (previously presented) The apparatus of claim 10, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
46. (previously presented) The apparatus of claim 11, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
47. (previously presented) The apparatus of claim 37, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
48. (previously presented) The apparatus of claim 40, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
49. (previously presented) The apparatus of claim 43, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
50. (cancelled)
51. (previously presented) The apparatus of claim 9, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
52. (previously presented) The apparatus of claim 38, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.

53. (previously presented) The apparatus of claim 39, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
54. (previously presented) The apparatus of claim 41, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
55. (previously presented) The apparatus of claim 42, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
56. (previously presented) The apparatus of claim 44, wherein:
the condition detector detects a blood pressure as the indicator or as one of the indicators.
57. (previously presented) The apparatus of claim 12, further comprising:
means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.
58. (previously presented) The apparatus of claim 45, further comprising:
means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.
59. (previously presented) The apparatus of claim 46, further comprising:
means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.
60. (previously presented) The apparatus of claim 47, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.

61. (previously presented) The apparatus of claim 48, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.

62. (previously presented) The apparatus of claim 49, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.

63. (cancelled)

64. (previously presented) The apparatus of claim 51, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.

65. (previously presented) The apparatus of claim 52, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.

66. (previously presented) The apparatus of claim 53, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.

67. (previously presented) The apparatus of claim 54, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.

68. (previously presented) The apparatus of claim 55, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.

69. (previously presented) The apparatus of claim 56, further comprising:

means for manually initiating atrial defibrillation from outside the body, said means being at least indirectly connected to the defibrillator, for the patient to initiate defibrillation even if the fibrillation detector has not yet detected fibrillation.